

1746

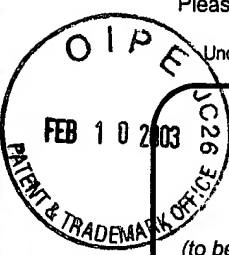
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RPTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	09/605,520
Filing Date	June 27, 2000
First Named Inventor	Unger
Group Art Unit	1746
Examiner Name	Olsen, A.
Attorney Docket Number	20174C-000230US

Total Number of Pages in This Submission

5

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ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Response	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	1) Fifteen (15) reference copies
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	2) Return receipt postcard
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s)	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application		
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm and Individual name	Townsend and Townsend and Crew LLP	Reg No. 39,496
Signature		
Date	January 30, 2003	

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Chris Fitting

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Date

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Unger et al.

Application No.: 09/605,520

Filed: June 27, 2000

For: MICROFABRICATED
ELASTOMERIC VALVE AND PUMP
SYSTEMS

Examiner: Olsen, A.

Art Unit: 1746

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT UNDER 37
CFR §1.97 and §1.98

Assistant Commissioner for Patents
Washington, D.C. 20231

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Sir:

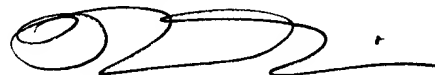
The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information, and no inference should be made that the information and references cited are, or are considered to be material to patentability because they are in this statement. No inference should be made that the information and references cited are prior art merely because they are in this statement.

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Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



Kent J. Tobin
Reg. No. 39,496

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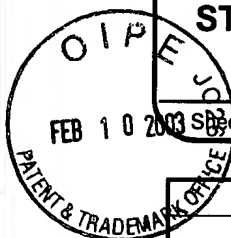
Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	09/605,520
Filing Date	June 27, 2000
First Named Inventor	Unger
Group Art Unit	1746
Examiner Name	Olsen, A.
Attorney Docket Number	20174C-000230US



Sheet 1 of 1

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	AA	6,155,282		Zachary et al.	12-05-2000	
	AB	6,043,080		Lipshutz et al.	03-28-2000	
	AC	5,875,817		Carter	03-02-1999	
	AD	5,681,024		Lisec et al.	10-28-1997	
	AE	5,346,372		Naruse et al.	09-13-1994	
	AF	5,164,558		Huff et al.	11-17-1992	
	AG	5,088,515		Kamen	02-18-1992	
	AH	4,434,704		Surjaatmadja	03-06-1984	
	AI	4,245,673		Bouteille et al.	01-20-1981	
	AJ	4,046,159		Pegourie	09-06-1977	
	AK	3,747,628		Holster et al.	07-24-1973	
	AL	3,570,515		Kinner	03-16-1971	

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FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁵
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 2

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Application Number	09/605,520
Filing Date	June 27, 2000
First Named Inventor	Unger
Group Art Unit	1746
Examiner Name	Olsen, A.
Attorney Docket Number	20174C-000230US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	AM	Quake et al., "From Micro- to Nanofabrication with Soft Materials," <i>Science</i> , 290:1536-1540 (2000).	
	AN	Unger et al., "Monolithic Microfabricated Valves and Pumps by Multilayer Soft Lithography," <i>Science</i> , 288:113-116 (2000).	
	AO	Van de Pol et al., "A Thermo-Pneumatic Actuation Principle for A Microminature Pump and Other Micromechanical Devices," <i>Sensors and Actuators</i> , 17:139-143 (1989)	

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